

This Listing of Claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Please amend the following claims:

1. (Canceled).
2. (Currently amended) The crystal of claim 3 further characterized by an ability to provide x-ray diffraction patterns useful to define molecular structures for bacterial IMPDH enzymes.
3. (Previously Amended) A crystal of bacterial IMPDH (inosine monophosphate dehydrogenase) isolated from a bacterial preparation wherein the bacterial preparation is a pure culture of *Streptococcus pyogenes*.
4. (Previously Amended) A method for developing lead compounds for an inhibitor of bacterial IMPDH (inosine monophosphate dehydrogenase), said method comprising:
 - (a) obtaining a crystal of bacterial IMPDH;
 - (b) recording x-ray diffraction data from said crystal;
 - (c) using said diffraction data to generate an electron density map consistent with a model for the molecular structure of a binding pocket of IMPDH; and
 - (d) developing lead compounds for an inhibitor of ~~baeterial~~ the IMPDH based on the map of three dimensional structural information of the molecular structure of the binding pocket of IMPDH.
5. (Canceled).
6. (Currently Amended) A crystalline molecule or molecular complex comprising a binding pocket wherein said binding pocket is defined by structure coordinates of IMPDH amino acids 50-56, 75-80, 229-235, 252-260, 283-286, 302-322, 343-345, 365-432 and 449-455, according to ~~Table 7~~ in the Protein Data Bank Accession Number 1ZFJ, or a homologue of said molecule or molecular complex, wherein said homologue comprises a binding pocket that has an amino acid sequence identity for the corresponding binding pocket residues of 60% or greater relative to the *S. pyogenes* IMPDH binding pocket.

7. (Currently amended) A crystalline IMPDH molecule defined by structural coordinates for IMPDH amino acids from *S. pyogenes* IMPDH amino acids positions in the Protein Data Bank Accession Number 1ZFJ 50-56, 75-80, 229-235, 252-260, 283-286, 302-322, 343-345, 365-433, and 449-455.

8. (Canceled).

Claims 9-15 (withdrawn)